AVATION

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SPECIAL FEATURES

MULTI-ENGINE PLANES AND FORCED LANDINGS WHAT READERS THINK ABOUT AIR LEGISLATION AIRWAYS MARKED IN MIDDLE WESTERN STATES

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under Act of March 8, 1870.

NUMBER 3

Cleveland-Air Center

THE establishment of Cleveland's new and splen-The Star in the Sky did air port crystallines a development which has Whether on the wing of a been under way for years—it assures the position med place, a bomber of Cleveland for all time as one of the world's creat nie centura. Alsouve struteoically favored for hand and water communication, Cleveland is now marked for an even more outstanding position in Here at this center of aeronautical activity and marks. The Glonn L. Martin Correnny has stronly

schooled a notable supply of expert shoraft mechasics and equipped them with unique production facilities. They transform the visious and blue into of the Martin neco-engineering staff, with go shotcen wears of intensive experience, into the world's excet advanced flying cruft The received of a Martin plane is sefermented by



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AVIATION IANUARY 18, 1926 Published core Mondes

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77 The Counties Victors Verses Phone Boot 81 What Print Think About Air Legisleton 84 Main-Europe Appleans and Ferrel Landings . . . 19 Amount and Airmon. 66 Air Cooled Engines 79 Publisher's Now Letter 55

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SCINTILLA DEPENDABLE IGNITION

Major Reed Chambers, president of the Florids no attention on the trip and for over 1000 Airways Corn., recently made a 2,000 miles miles ordinary automobile can was used. We with Woods 14 200 hp SCIN-TILLA equipped

and two courts cel from New York City to Mineri Fla. and made an average of 100 rifes to 13 gallons of

Rest Admiral Win A. Mofatt, Chief of the Bureau of Assessation, Navy Department, says in

"No Engine Is Better Than Its Accessories" ASSESSATION OF THE ANSWERS SUREM BY THE CHOICE OF SCINTILLA BY LEADING AMERICAN ARE-Contractors to U. S. Arms; and Navy

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W. POTTS AM STANDARY EXCESS

VOL XX

SANUARY IS 1926

Air Transportation Experience

TT 18 becoming more and more recognized by readers of by no means so complicant as it has been the tendency to

securally believe, and this because of the total multility of our makes counting in that country to they a profitable addity of the twin-segme place. balance short, in spile of guarous greenwest financial assistance in the farm of subsidies. On the other hand, it would be very unfertunate if the

thought Barnoles, Director of Civil Avanton in the British over the two-segme nepters. This point must be horse in Are Message. General Dransfer's presents on the Issues mand in considering the respective advantages of the two types milds have been beened during six years' expenses to sir in occurrence eviation. transportation, were so fall of extremely appalleast points that his percer is desired long to pensio an excellent etendand of the recognizate of our transport, and thus us order of his owns advances that Zerith our transport has been a Property activities and the staffetive, data and expension

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Multi-Engine Airplanes Again

TX AN webdy widehold electrons as this feets, the relative ududates at one, tax, and, there receive victors in dirmuscal and the deflections and conclusions drawn, have the Mail Gordon Dr is principally interesting to note that, aclead follows in surplus service in one in every 15,400 makes there, or one on every 77 trine of 200 miles such Adopting as a basis, an everage of one in every 30 targe, a simple to the sideal calculation is used to show the palatre sout of very of principles. At first side, it would expend that the twin environ place is for exceptor to the three-excise.

type. If the twa-cogue place is able to fly on either ongue spin-ducity it is shown that a relability of the option American that Empress are disconnected on activities are made with the three-regime plane with no dry on any two exmean. they haven to reduced to one disches in \$1000 trees or

If, however, economy and costs of operating are taken take consideration, it is susualistaly autopast that this is not downed believe should read us a complete everlooking of or manhening flight with one sauce thought will to use it the operating expensesors of sixthen elected. There am be planty, he carrying around in the air just two the no doubt that, whether a fineacial mount or not, Ecoupees air power accounty for Sight. The three-engine type, on the transport appropriate, after the years of numbers, have taught other hand, where the machine is expedit at remaining in the more leaves, which are housed to be of extreme value. A sur on any two outpass, is easy constitued, in the extreme of cratical expension of they was to be found in the recent upon. Principles, to the extent of one than the maximum navor to derival address before the Royal Astronauteral Servicy by quired for flight, with a consequent economical advantage

> Suvertuniting further, it is upportent to note that the threesidered out of the commice from the recognic standpoint, although the about monographic relability of one forers in printrity problem in our transport, has in the three engage

> > The Airulane Ambulance in Service

TARE ATEPLANE probabase has been not into extensive was water below service conflicts in the country mareaded assessment of the Fornsk assess the Follows of expensive as the type of country was such as to reader treaswere curred back to hospital becoming the Present-Management way. Completing the marnitade of the operations.

SPEED WITH SAFETY



THE LARK IS NOW IN SERVICE See what Major Reed Chambers, revolves of the Florida Airways Composition

"It may interest you to know that I have you completed a two thousand rule two from Carden Cuty, Long Island, to Marra, Florida across the state of Florida to Ft. Myer, "I am way enthalistic over the well-counce of this place and I believe at to be the

mag mades place of its type in expanse. I wish to conclude you explicately on the several of the lander our and the about of the when to get up and out of anall folds. Its authlite at his remarkable "A weed also about the motion. The Weight J-4 200 RP gives the plane a croking speed of better than 100 m g.h. This motiv had prestanily an attention on the crip

"I believe the place has presendous combilines from either a truning or commercial This is but one of the Lack series. In addition to the 14 200 HP air cooled motor

installation, the Lark is built with either the 180 MP Misso motor or the Cortiss Ci-6 160 HP motor, giving a rappy of performance sugable for varying types of commercial from and for referent training recovery. For water from the 1-4 marking is furnished with postoon contract. The Lack has been developed with corpussian attention to incommittee production

and maintenance. Our prices will interest you. Write for Curtiss Lark Series Booklet.

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Multi-Engine Airplanes and Forced Landings

Multiple Engines Insure Greater Reliability, One Forced Landing in 343,000 Flights or One in 1.400 Years, a Possibility

By HARRY G. SMITH

tor for every 15,400 miles force with mod average mad live, or the destance between survice stations, is approximately 200 miles, which gives our mechanical fused. will be on the sale of safety of we somme for a know that, with a single-engine surpless, there is one medicated found hand-

The Chance of Muchanical Failure It is also assumed that in any confirmance sireless, the installation of the engines is such that such to enterely redonavidation of the righter is not that out to entropy into-naulest of all others to the sirvians. That is, it is examped Unity thin as a back, the chance of a prochasteal board landing with a strate-strain similars, may be said

Web a temperities similars, there are two cares. First in the case when either one of the two power plants will make tain hastmantal flight after the other has failed. In this case the chance of a farred laudator is \$ 70° or ups to \$490 trees. The second case is when both nagines are required for flight the case the chance in (2)780-1397, or one in 35 term With a financiaries similary them are three store. First,

ROUBLES of the Air Mell Bernas for a pencel of eighteen of a forcet leading or (0.57)—(0.00)+1.79, as one is 20 penchs show that there is one medicated forced bank.



It will be noted from this table that, with any multi-engine sirplens securing all engines for flight, the choses for a there, then, should practically elaminate mechanical freed



The Commercial Use of Wright Whirlwind 200 h.p. Air Cooled Engines

ONE of the best people of the adventages of Wright Whallsond 200 hrs are pooled creams for recommendation voles represented our engine ends, which is no auditodate. Dast H is independent to learn that in December alone, even orders were precised from Various reconcreted aviotics intro-

Raniel Increase in Private Orders Of the total of \$50 Whichrish point to other loyer butter months of 1824 seem were sold of the total of 120 Of the orders for 68 organs received at December, many of R in as old saying with flow that the "Fan Kerey Sets On Weight Engage" The use to which these IM Weight Whitheast engineer are not as a proof of the serious. Some

The convenient of agradian designers to take advisation of the commontal possibilities of the Windowski is shown by Whetherst 200 kp. sar cooled engines For instance, the large three spring, by manuscry signifer

wind engines to power plants. Both of these there expire planes were presently designed for one 400 kp. water resist service, but the light would of 200 to Wasterial addienty a few legalized possels to the total weight of the place, A decree of describility is added by layour the three refirsted organs, which cannot be over-efficated in our addring the subty of the plane. There is no constitue that

The Whathand engine has successed the performance of for power! communical purposes. It is one of the solutions large to be delicated to a commercial over was delicated to the Florida Airways Corp. Remodiately after thing dele-cy of the place, May Rood Chembers, organizer and prondeat of the Planta Arranya Corp. flew the Lock to Farries



and return, using conserved profite much of the way and having a upleased trip

The Half Deland Company here built two commercial please to 1905 with Whatlevade. Could should be given of the 1925 tred in commercial necessaries. This company tests estated into in the world, without aid of a Government lead saother sent out perspective place, for a postale out-toner, with the Windwind The Hall Dalent photographic plans incorporates many of the feelures which made add further to the value of the photographic pleas.

The Trend Air Connect of Wichita, Kan., well insert to their place from both with a Wherland corner, descend for its somilest accommon planet pursued with the 66 by name of planes, the Travel for Company to confident that

The Shinnly Engineering Company law built, for a perplease sometimed with the Witerbeard engue. The plant manuscribes every of the room, with Printrade personal outfills.

The Glood Calen Pinne

or plane, the both performance, closed content, eater where cabin clear. The Stinger Aircraft Scoulects of Detroit is The repulsate of the Whiteenst senter to County to exemplified by the Bayel Canadian Air Force buying both

London-Paris-Rome-Athens Airline Planned Pleas for an airlies expecting Louise, Pers. Morarity. by eleplane to Asison only in Nevember, officers of the selfs, will be placed as operation May 1, 1936, with extension

Germany to Open Air to Foreign Lines? It is isnorted that, as a surrouncer of the Lorgen past

A Forest Fire Fighting Plage

The 60 orders for Wherlead engines, present to Dense-

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for transportation of processes, sense sight recent or made

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C. L. Lawrence to Address European

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the collisionism of O. H. Juspier of McCrob Field and C. W. Koon of Borne. Trees. The plane two relyindry foreign for a motive spile region for the control of the control

The Canadian Vickers Varuna Flying Boat

A Seaplane Designed Specifically for Aerial Forest Patrol and Fire Fighting.

FIGHE "VARUEA" flying best has been designed to a med that at thes covered with two largest of curves. The hall suppression of frame fire, we dated being to transport men

As it is absorbed eventied that the machine shall be able small lake, suggested, in pray open, by lefts. Low lond-

There is a very wide could rection, also then extends to and maid by as mounted V forcestor. The order wone street

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themselves. It she wine bracing stressshes were in total externally while national bracing with awaged name in our

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passe may so engages by made of transport for mann of The Control Mechanism The applicate in the policity coderst, as previously stated,

ory serviced in displaces. Elevation and alterna are one redict by mean of a salesce and wheel, while the radder The applicant country machiness may readily be thrown out trants becoming necessary in the radder control ware.



The Constant Victory Forest Plant had belief of . The plant is embed with the World Withhelm radial organi-

plants, both the engines and the propellors being of American The engine manufacts, as previously stated, are of all steel. accatraction. The engines are not cowled except in the sear, water wine center section. The engines are fixed with self startess and, for starting is each weether, doping arrange-

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Flying Boat Altitude Record With Load earrying a load of 2,000 the. The hearts reached, ecception Sauga empire. This plans is a much buy hittee with the engine classing a trucker type peopeller attested between the

The Baumer Aero Monoplane The "Supercod" BH, a small sport-mong manapless constructed by the Blazzer Asro company of Hundrey flor-

External Significate The plane is a two scatter law wing enablever monoplage and is of the currence V type, with two additional strate. The ways toper in held plan, form and in section thackness



Not reterring from the American standpoint, however, wird" Bil is equipped with a Winght "Gale" L4, 60 ha au ward" Bill is equipped with a Wingle, "take" Lt, 60 kp. a.d.

The Bilguar Acro also produce the "Absterland" BIII. a to passes the storiest type further of the BH mesopher. The engine, inc, is a Wright 'Onle" A light plans single outer nonexplans of the parasols type is also produced. This machine is equipped with a Brillob Denotes 360 on one, enough with two harpootedly opposed



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ON ARREST MAPS

What Pilots Think About Air Legislation

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does most of his flying about his own field and in algory of his base. This is an extently different proposition. If U. Marsia, Mortan Grave, III

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Industryale, Inc.

Eleven Years of Packard Pioneering in Aircraft Motor Development 1915-1926

Packard Model 1800

Sendop: 100 E. H. P. at 200 E. P. N. Weight 139 possels—14 possels per lance posses. Bern, 3 2/1°, closks, 5 1/2°, depthenesses 1500 miles stokes. These types—datest vertical, dwest coverted, and vertical with two to one



Packard Meets Power Demands of Aircraft Industry

FOR eleven years Packard has been in the forefront of aircraft development—has been recognized as a leader in the design and manufacture of

Year after year new types of planes have been perfected and new power plant demands have arisen. And year after year Packard has consistently ment these demands—freemeable are vanced type of engine equipment.
Teday Perkard offers two engine— Models 1500 and 2500—which exactly stit the requirements of any slep follow within the power mag of 100 to 950 H.P. For every seet of one records and military purpose, these two engines have thoroughly desires the engine have thoroughly desires their vesselling and these decembers.

PACKARD MOTOR CAR COMPANY



and Market Street

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January 18, 1926

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London Profited by War Air Raids

Treesury of \$55,000,000, or \$5,200,000 for each raid, around cest rate. The modest received was 570,480,000. Of this wars only \$15,270,000 was pend to dismands. Thus the Imagery had a mindfull of fully four and those-marrier times The total decoupt done to preperty in the twenty-five raids The number of persons killed was 524 and knicked \$,266. The helibrary destricted attitled 174 and 618 others were as



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Ministry for policy very notes.

We still have proving of Standards Possible Encodes, October D.H. a with Library maters, Space less sentent, T.S.

with and without maters. A form another of Standards are not but for the province of these sentents of the contract of the The control of the co

The splendid response to this special offer (originally limited to June, July and August) permits us to extend it until further retire.

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AIRPORTS AND AIRWAYS

Chicago, Ill. News

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Milton P. Rogers, technology of the Ministers Americal Pliest of America, is persently for his justice artistics to possible "Priots and mechanics have been exceedingly kind.

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Muscles Field it Inested a little over four males N.W. of out from Pateron at fraction referrals. It takes a little over half as hour to get in free Poterson to New York by true. The field is council by Anthony Marries, and is over

January 15, 1926 Manchin Field N I

as well Oil and graphte can be obtained and all pilots 5000 trees an blue?

plane will have seats the those provengers as addition to the

Aimton, Souther Don't Over Penches

Effective use of the simpless in the "dustrue" of Gooren pends ontards, after the manner of dealing cotton with an

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of Enmouric Enteredering

Development of Euryous Field into one of the most im-

Of perfector adventogs to the local field will be the estal station will be one of fire that will be established by the

the stoffes, established. As a year't of this increased interest, Licens. S. F. Stawell, AS Rev. J. S. Stroves, AS Rev. and S. S. Brightness, Ref.

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